

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563318

Luminaire Tested: **SQ4-PP3-050U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563318
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

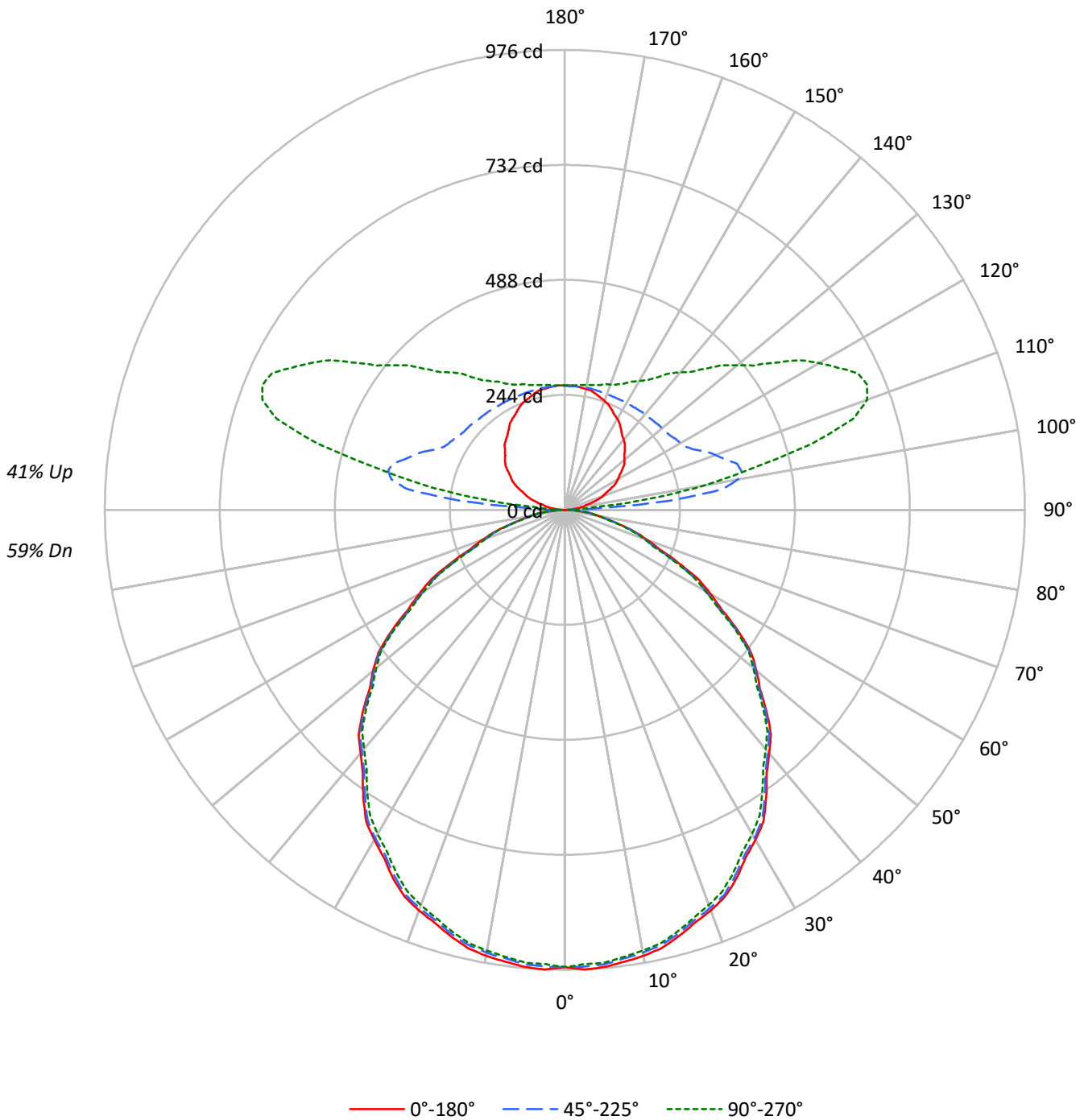
Lumens per Lamp: N/A
Luminaire Lumens: 4206.8 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8933
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8572	8463
35°	8391	8334	8229
40°	8122	8072	7979
45°	7902	7846	7769
50°	7617	7569	7495
55°	7224	7127	7073
60°	6576	6388	6357
65°	5794	5552	5532
70°	5001	4796	4796
75°	4306	4246	4185
80°	3794	3841	3751
85°	2975	3239	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	2.2
10°-20°	262.0	6.2
20°-30°	392.5	9.3
30°-40°	460.3	10.9
40°-50°	461.8	11.0
50°-60°	393.9	9.4
60°-70°	256.9	6.1
70°-80°	128.9	3.1
80°-90°	36.7	0.9
90°-100°	126.6	3.0
100°-110°	343.9	8.2
110°-120°	353.6	8.4
120°-130°	282.7	6.7
130°-140°	222.2	5.3
140°-150°	170.3	4.0
150°-160°	122.5	2.9
160°-170°	74.9	1.8
170°-180°	25.2	0.6
0°-30°	746.2	17.7
0°-40°	1206.6	28.7
0°-60°	2062.3	49.0
0°-90°	2484.8	59.1
90°-120°	824.1	19.6
90°-150°	1499.3	35.6
90°-180°	1722.0	40.9
0°-180°	4206.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	974	965	968	964	964	92
15°	936	927	931	928	926	264
25°	862	852	856	849	848	397
35°	745	738	740	731	731	465
45°	606	601	601	595	595	466
55°	449	447	443	440	440	399
65°	265	260	254	253	253	265
75°	121	121	119	118	117	131
85°	28	31	31	31	31	33
90°	1	3	6	8	8	2
95°	19	69	220	96	64	20
105°	61	95	378	576	542	65
115°	108	132	303	602	686	107
125°	149	170	274	462	544	133
135°	180	200	266	376	424	139
145°	208	223	263	319	343	130
155°	235	243	261	287	295	108
165°	254	258	262	273	274	72
175°	264	265	263	266	265	25
180°	264	264	264	264	264	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	970.4	970.4	970.4	970.4	970.4
2.5°	976.5	968.6	970.4	969.0	965.0
5°	973.8	964.7	967.9	964.5	964.5
7.5°	967.2	957.2	960.4	957.0	956.8
10°	961.1	951.1	954.3	950.8	950.0
12.5°	952.2	942.2	946.1	942.0	941.8
15°	936.4	927.3	931.3	927.9	926.2
17.5°	918.5	908.6	913.4	908.7	908.0
20°	904.9	895.0	899.8	893.0	893.0
22.5°	888.6	878.6	884.2	875.3	875.3
25°	862.4	852.4	856.5	848.8	847.9
27.5°	831.3	821.5	825.7	817.0	816.8
30°	808.8	799.7	804.6	795.2	794.4
32.5°	784.3	775.8	779.4	770.0	769.2
35°	745.0	737.6	739.9	731.4	730.6
37.5°	703.7	696.1	698.8	691.4	691.1
40°	674.4	669.5	670.2	664.2	662.5
42.5°	647.2	641.6	642.3	636.3	636.0
45°	605.6	601.4	601.3	595.4	595.4
47.5°	561.3	558.2	557.2	552.3	552.1
50°	530.7	528.2	527.3	523.0	522.2
52.5°	498.7	497.6	494.7	491.1	490.9
55°	449.1	447.4	443.1	440.5	439.7
57.5°	395.1	391.8	387.0	383.3	383.9
60°	356.4	353.0	346.2	344.5	344.5
62.5°	318.9	314.9	308.1	305.7	307.0
65°	265.4	260.4	254.3	252.6	253.4
67.5°	216.7	212.2	205.7	205.6	205.0
70°	185.4	182.9	177.8	177.8	177.8
72.5°	157.5	156.3	152.6	152.6	151.9
75°	120.8	120.8	119.1	118.2	117.4
77.5°	90.5	90.8	90.0	89.1	87.6
80°	71.4	73.1	72.3	71.4	70.6
82.5°	53.8	55.4	55.3	53.7	53.6
85°	28.1	30.6	30.6	30.6	30.6
87.5°	7.7	10.8	12.1	12.4	13.1
90°	0.8	3.3	5.9	7.6	7.6
92.5°	7.6	34.7	60.2	25.9	21.9
95°	18.7	69.2	220.5	96.0	64.4
97.5°	30.9	76.5	338.0	263.0	184.7
100°	39.0	81.3	374.0	379.1	306.1
102.5°	47.1	86.1	383.5	468.8	404.5
105°	61.1	95.1	378.2	575.9	541.9
107.5°	75.5	105.5	356.3	631.1	640.6
110°	85.6	113.0	340.1	642.0	682.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.5	120.5	323.8	633.0	694.2
115°	108.5	131.8	302.7	602.3	686.0
117.5°	121.8	144.0	289.3	558.8	653.1
120°	130.6	152.2	283.2	529.6	623.3
122.5°	138.1	159.6	279.2	500.3	590.7
125°	149.2	170.0	273.9	461.5	544.4
127.5°	159.3	179.8	271.0	432.1	503.2
130°	165.4	185.3	269.7	413.6	477.4
132.5°	171.5	191.4	268.3	397.8	454.4
135°	179.8	199.7	266.3	375.9	424.0
137.5°	188.8	206.8	265.3	356.6	397.0
140°	194.2	211.6	264.6	344.3	380.8
142.5°	199.6	215.7	263.9	334.6	365.2
145°	207.8	222.7	262.9	319.4	343.4
147.5°	216.9	229.7	262.0	307.4	326.3
150°	223.0	233.8	262.0	300.5	315.5
152.5°	227.8	237.2	261.4	294.4	306.6
155°	234.9	243.2	261.2	286.8	295.1
157.5°	241.9	248.3	261.2	281.7	288.0
160°	245.9	251.7	261.2	278.3	283.2
162.5°	250.0	254.5	261.9	275.5	279.2
165°	254.4	257.7	262.0	273.1	273.9
167.5°	259.0	260.6	262.9	270.2	270.9
170°	260.3	262.0	262.9	268.8	268.8
172.5°	261.7	262.7	262.9	267.5	267.5
175°	263.7	264.6	262.9	266.3	265.4
177.5°	264.4	264.4	262.4	265.1	263.7
180°	263.7	263.7	263.7	263.7	263.7

(END OF REPORT)